PoleVault™ Systems

Complete audio/video solutions designed to meet the needs of K-12 classrooms

- Complete, centralized A/V switching system with stereo amplification
- Securely mounts and conceals switching and audio amplification components above the projector
- Twisted pair based design provides quick and easy installation using low-cost CAT 5 type cable
- Includes all necessary switching and mounting equipment – just add projector, sources, and screen
- Multiple upgrade options available
- Tamper-resistant, theft-deterrent design
- Simplifies setup; no programming required
- Network connectivity for Web-based monitoring and rapid problem resolution

Extron® Electronics
www.extron.com

Overview

Extron PoleVault Systems are easy-to-use, network-enabled, all-inclusive packages, making them ideal for single-projector K-12 classrooms. They use economical twisted pair cable for transmitting signals and include network connectivity for Web-based asset management, monitoring and control.

Extron PoleVault system in classroom setting

Designed for K-12 Classrooms

When it comes to adding an A/V control system to the classroom, educators, instructional technologists, and school administrators have told us they have three primary concerns: the system should be reliable, easy to use, and sized properly to meet the needs of the classroom.

PoleVault Systems are designed to create a complete classroom A/V technology integration solution that offers benefits for teachers, students, and administrators alike. Teachers will enjoy the simplicity of the controller and enhanced audio quality. Students will benefit because technology that is easy to use gets used more often. Administrators will appreciate the ability to centrally monitor all classroom systems using the network, as well as the expandability offered by the PoleVault switcher, which enables the addition of inputs beyond the capacity of the projector.

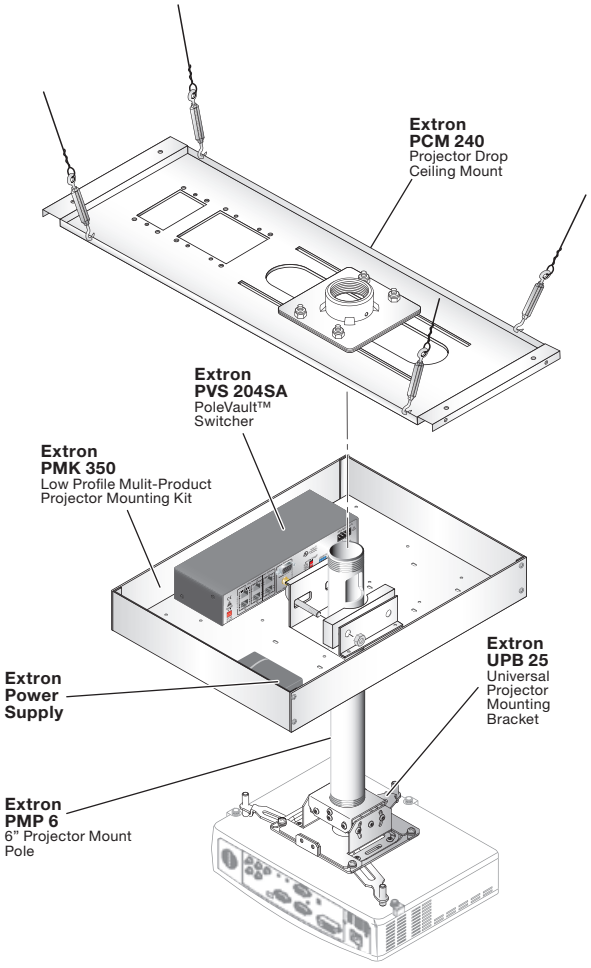
Since all of the products in the PoleVault Systems are made by Extron, they are optimized to work together. PoleVault Systems are quick and easy to configure using the free Extron Global Configurator software, which results in a significant reduction in design and installation costs.

A teacher can control the entire classroom A/V system through the intuitive MLC 104 IP Plus MediaLink™ Controller, which eliminates the need for a handheld IR projector remote and can significantly reduce calls for help. PoleVault Systems offer the high performance and reliability you've come to expect from Extron.

Standard PoleVault Systems

The three standard PoleVault System packages are each ordered using a single part number. The price for each system package includes a 10% discount from the products purchased separately:

- **PVS 200** Two Input PoleVault System: Accommodates one RGB computer video and one composite video source, such as a DVD player or VCR.
- **PVS 300** Three Input PoleVault System: Accommodates two RGB computer video and one composite video source, such as a DVD player or VCR.
- **PVS 400** Four Input PoleVault System: Accommodates two RGB computer video and two composite video sources, such as a DVD player or VCR.



With PoleVault Systems, switching and audio amplification equipment are securely mounted above the projector, away from tampering hands.

PoleVault System Benefits

Complete System

PoleVault Systems, whether standard or customized, streamline the design and procurement process, saving both time and money. Each system includes nearly 20 separate products, yet the entire system can be ordered using a single part number. PoleVault Systems include all the necessary audio and video switching, audio amplification, system control, source connectivity, speakers, mounting hardware, and cabling for a complete classroom A/V solution. All that remains is to add the video projector, projection screen, and video sources.

Simplifies Installation While Saving on Space

In typical classroom A/V systems, audio and video switching and amplification devices are mounted in a lectern or on a shelf or desktop. Too often, the equipment is unsecured, unsightly cables are visible, and valuable floor space is used. PoleVault Systems place the key products at the projector, so no equipment rack or tabletop space is required and cables are hidden away. Installation is simplified through the use of CAT 5 twisted pair cable, wall-mounted input signal transmitters, and easy-to-use projector mounting hardware.

Economical, Easy-to-Install Cables

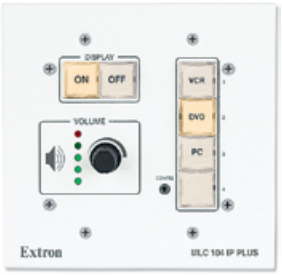
With PoleVault Systems, all video and audio input signals between the transmitter and switcher are routed along proven, reliable, and cost-effective CAT 5 twisted pair cable. In most cases, power and high resolution A/V signals can sent over the same one or two cables for each input.

Twisted pair cable is lighter, smaller, and more flexible than coaxial cable, so it is easier to route through walls and pull through small conduit, making it ideal for use in retrofitting existing classrooms. The connectors used with CAT 5 cable are also easier to attach to the cable and don't require highly skilled and costly technicians for installation. All these things add up to make PoleVault Systems more economical to purchase and install than those using standard coaxial cable for audio and video.

Easy To Control

The MediaLink controller included in standard PoleVault Systems is designed to simplify operation of the classroom A/V system. With large, backlit buttons and a basic volume control knob, the controller is almost as easy to use as a light switch. Teachers with little or no training can learn to operate the system in a few minutes.

The standard controller employs only six buttons; two for ON/OFF control of the projector, and four source control buttons for selecting between a computer, VCR, DVD Player, or any other source connected to the system. Controlling the volume of the presentation is a simple as turning the volume knob. For added functionality, other controller models are available; all based on the same simple interface.

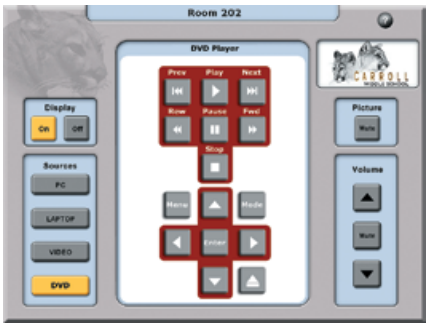


The MediaLink Controller is easy to use.

The MediaLink controller eliminates the need for multiple handheld IR remotes that can be lost or stolen. There are no batteries to replace, and no confusing menus to memorize. When PoleVault Systems are installed in multiple classrooms, teachers will confidently move from room to room when necessary, always encountering the same familiar control panel.

Graphical Control Option

Some instructors may want the additional ability to use a graphical control page on a computer screen to control the AV system. For them, Extron offers an optional, economical service to provide a customized graphical user interface, or GUI, for use with the PoleVault System.



With a customized graphical user interface, you can control the system on a computer screen in the classroom.

PoleVault System Benefits

Extron SI 3CT LP plenum rated speakers fill the classroom with high quality sound.

Enhance the Classroom Audio

Attempting to run the presentation audio through the projector might be seen as a money saving option, but all too frequently it results in poor quality sound and a low volume level. Projectors just don't have the speakers or amplification to produce sound that matches the quality of the video or overcomes noise in the classroom.

Many classrooms have acoustical tile ceilings that are suspended from the roof or floor structure above the classroom. This forms a space or "plenum" between the suspended ceiling and the building. Standard PoleVault Systems provide plenum rated ceiling speakers that are ideal for such classrooms and distribute the sound across the classroom. As an option, you can select wall-mounted program speakers which can be mounted near the projection screen for directional stereo audio.

Together with the included PoleVault System speakers, the audio amplifier built into the PoleVault Switcher offers a big step up from using projector audio. The PoleVault System switcher with integrated audio amplifier offers a more robust and even distribution of audio throughout the classroom. Compatibility issues are eliminated since the amplifier, speakers, and audio inputs are all designed to work together.

Voice amplification in the classroom provides several benefits. It reduces strain on the teacher's voice, makes it easier for students in any part of classroom to hear what is being said and, therefore, is likely to increase classroom participation. The PoleVault Switcher is microphone-ready. A wireless microphone receiver can be plugged directly into the PoleVault Switcher.

Flexible and Expandable

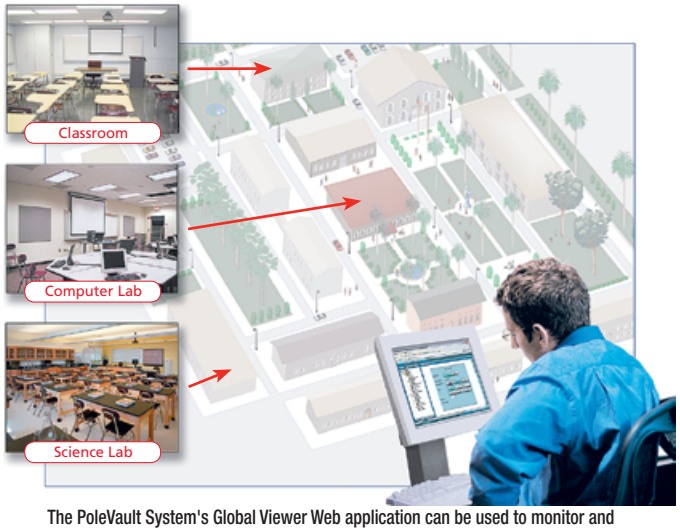
PoleVault Systems are switched A/V systems. The PoleVault switcher at the heart of the system does all the work of signal routing external to the projector. This allows expansion of the classroom A/V signal switching capability beyond what is available using the projector alone. Switching between sources is much faster than with using the projector, because the switcher eliminates lag time and delays. Students will enjoy the presentation experience and teachers will enjoy presenting.

Standard Polevault Systems accept two, three, or four input signals. The four input system can accept two high resolution, or computer video, signals and two standard resolution, or composite video, signals. Adding additional inputs is easy by simply substituting one or more of the standard single input transmitters with a switchable two-input transmitter.

PoleVault Systems allow for the integration of legacy components, such as computers, DVD players, VCRs, document cameras, and more to support each of the different types of media used in the classroom. Because the PoleVault controller uses IR and serial control, the systems readily adapt to changes. If you upgrade your DVD players, for example, connections are easy to make and the system will operate exactly as before the upgrade. Polevault Systems offer the flexibility and expandability to ensure they will meet tomorrow's needs as well as the needs of today.

Network Connectivity Helps Save Time and Money

The controller offered with standard PoleVault Systems features IP Link, a network integration technology specifically engineered to meet the needs of professional A/V environments — from small K-12 classrooms to university and business applications.



The PoleVault System's Global Viewer Web application can be used to monitor and control A/V systems in a single building or across an entire campus.

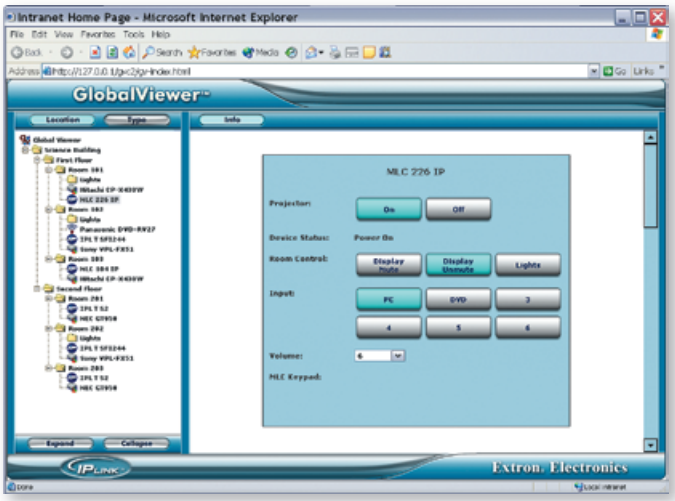
It is common for a school to secure funding for purchasing and installing A/V systems, but underestimate the budget for technical support. While classroom technology affords users a long list of benefits, it also presents a few challenges. How will you monitor and maintain all of your new A/V equipment? Projector lamps and filters must be replaced after a set number of hours of usage, based on the manufacturer's recommendations. How will you support teachers who are using the A/V systems? Extron's

PoleVault System Benefits

IP Link technology works in conjunction with our free GlobalViewer asset management software, making it possible to monitor, troubleshoot, and control systems throughout the campus over an network connection.

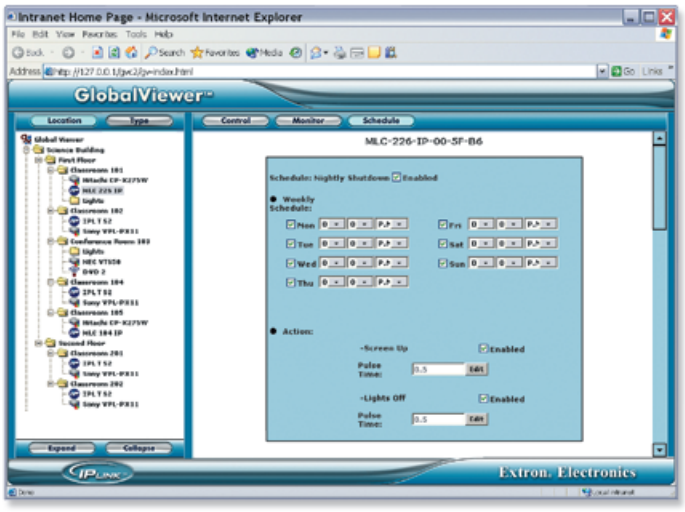
Administrators will appreciate the benefits that can be derived from the network-enabled PoleVault System. Together with an IP Link-enabled MediaLink controller, the GlobalViewer Web application provides a powerful, flexible way to manage, monitor, and control all of the equipment in the system, including the projector, VCRs, DVD players, and other devices, using a standard network connection.

Rapid problem resolution: You can troubleshoot PoleVault Systems remotely thanks to the real-time status of connected devices provided through the GlobalViewer Web application. Information such as connection status, power state, and current input selection is displayed in a central location. For many connected devices, technicians can toggle power on or off, switch sources, control volume, and more without leaving their office. Many common problems can be resolved without a trip to where the equipment is located.



Remotely control all devices in the room with GlobalViewer's Room View screen.

Loss prevention with theft alerts: PoleVault System controllers are always on and routinely poll their attached devices for status information. If any projector is physically disconnected from the network, the PoleVault System monitoring its status will know immediately. In such an event, it can send an e-mail message notifying security personnel of the possible theft. For fast action, e-mails can be sent to multiple addresses as well as cell phones and wireless PDAs.



At the Schedule screen, you can view and modify scheduled events and automated e-mail alerts.

Reduced projector lamp and power costs: A projector that is left on over the weekend uses more power and lamp time than a week's worth of typical classroom use. Projector lamps are relatively expensive, ranging from $200 to $400 or more. An administrator may want to turn off all projectors every day at a preset time. She might also want to schedule the controller's front panel to lock out any unauthorized use after hours. With the controller's internal clock and the free Extron software, these and many other automated tasks are easy to set up.

Accessible from anywhere: Because they are Web-based, GlobalViewer Web pages stored on the MediaLink controller can be viewed using Internet Explorer® version 6.0 or higher from any computer with access to the network. GlobalViewer can also store and display information about connected devices like serial numbers, owner identification, maintenance history, and installed firmware versions. This centralized data can be collected and used to reduce maintenance costs and guide future purchasing decisions.

Avoid surprises through preventative maintenance: Projector lamps generally have a lifespan of around 2500 hours of usage. It can be very frustrating when a lamp reaches the end of its lifespan in the middle of a presentation. The networked PoleVault System controller can keep track of the projector's lamp usage and, thanks to the controller's e-mail capabilities, you can set it up to send an e-mail when a predetermined number of lamp hours have been reached. This will alert an administrator to purchase a new lamp before it burns out.

PoleVault Systems

EACH STANDARD SYSTEM INCLUDES THE FOLLOWING CORE COMPONENTS:

- One PVS 204SA Four Input PoleVault Switcher with Integrated Audio Amplifier - not available separately
- One MLC 104 IP Plus MediaLink Controller with IP Link - White
- One PCM 240 Drop Ceiling Mount
- One PMK 350 Projector Mounting Kit - White
- One PMP 6" (15 cm) Projector Mounting Pole - White
- One UPB 25 Universal Projector Bracket - White
- One pair of SI 3CT LP Full Range Plenum Rated Ceiling Speakers
- One length of SPK 18 Precut Speaker Cable - Plenum, 25' (7.6 m)
- One MLC IR/RS-232 Projector Communication Cable - Plenum, 50' (15.2 m)
- One MLC PW/RS-232/VC Power, Switcher Communications Cable - Plenum, 50' 15.2 m
- One AV RCA Male to Male RCA Cable - 3' (1 m)
- One MVGA M-M 3 Male to Male Micro VGA Cable - 3' (1 m)
- Two, three, or four exclusive PoleVault twisted pair transmitters - see below
- One length of CAT 5 twisted pair cable per transmitter - Plenum, 50' (15.2 m)

The only difference between the systems is the quantity and type of transmitters and video cables included - see Unique Features for each system.

PVS 200

Two Input PoleVault System

UNIQUE FEATURES

- Includes one PVT RGB D - RGB Computer Video and Stereo Audio Twisted Pair Transmitter - Decora® Wallplate
- Includes one PVT CV D - Composite Video and Stereo Audio Twisted Pair Transmitter for a VCR or DVD Player - Decora Wallplate

Model	Version Description	Part #
PVS 200	Two Input PoleVault System	42-108-03

PVS 300

Three Input PoleVault System

UNIQUE FEATURES

- Includes two PVT RGB D - RGB Computer Video and Stereo Audio Twisted Pair Transmitters - Decora Wallplate
- Includes one PVT CV D - Composite Video and Stereo Audio Twisted Pair Transmitter - Decora Wallplate
- Additional RGB transmitter provides increased flexibility for adding an additional RGB source, such as a laptop or document camera

Model	Version Description	Part #
PVS 300	Three Input PoleVault System	42-109-03

PVS 400

Four Input PoleVault System

UNIQUE FEATURES

- Includes two PVT RGB D - RGB Computer Video and Stereo Audio Twisted Pair Transmitters - Decora Wallplate
- Includes two PVT CV D - Composite Video and Stereo Audio Twisted Pair Transmitters - Decora Wallplate
- Additional video transmitter provides increased flexibility for adding an additional composite video source, such as a VCR

Model	Version Description	Part #
PVS 400	Four Input PoleVault System	42-110-03

PoleVault Systems

POLEVAULT SYSTEMS ARE EASY TO CUSTOMIZE

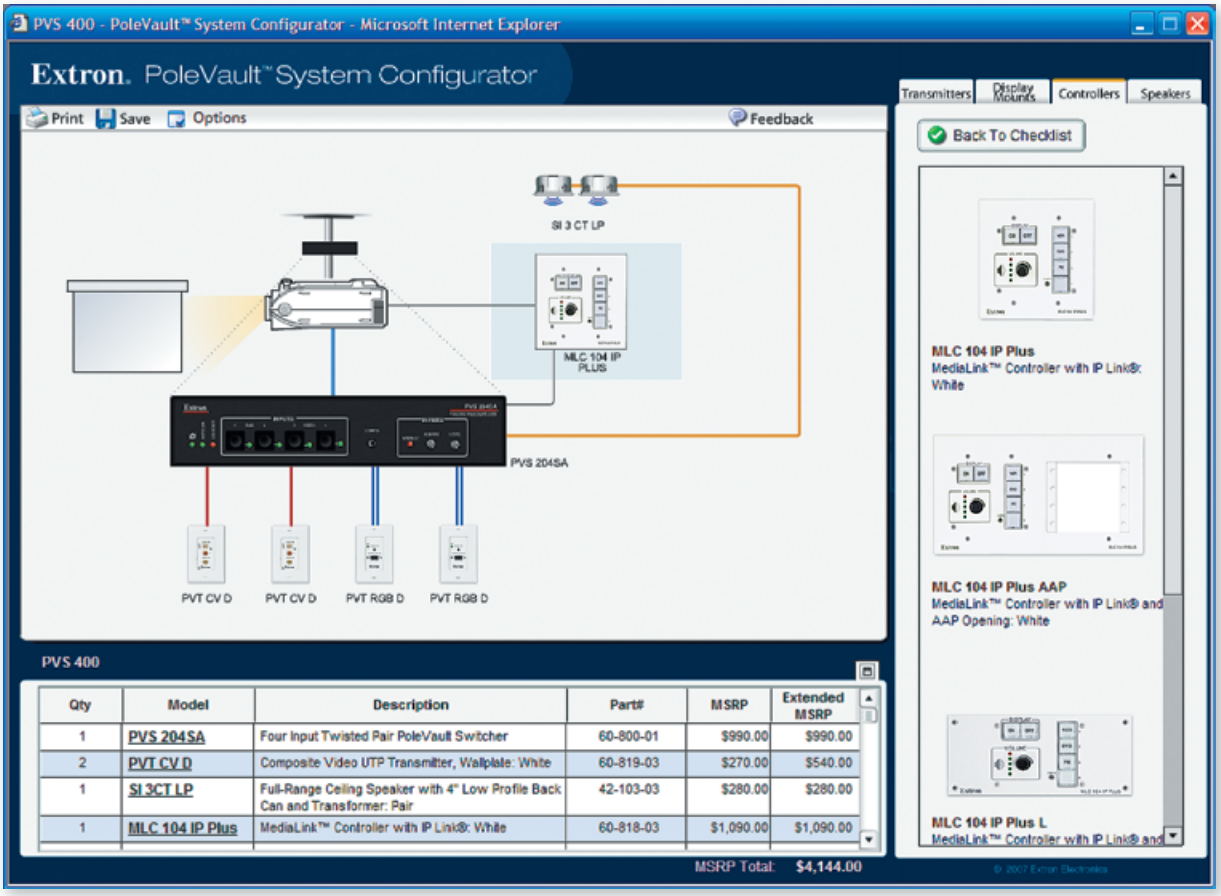
There are three standard PoleVault System packages which streamline the design and procurement process. These two-, three-, and four-input packages include all the necessary audio and video switching, audio amplification, system control, source connectivity, speakers, mounting hardware, and cabling for a complete classroom A/V solution. All that remains is to add the video projector, projection screen, and sources.

Extron PoleVault Systems take their name from the unique PMK 350 Projector Mounting Kit that securely mounts and conceals the system audio and video switching and audio amplification components mounted above the projector. This provides tamper-resistant theft deterrence for the A/V system.

System Customization

All PoleVault Systems can be customized to meet specific classroom requirements. Each customized system must always include the PVS 204SA PoleVault Switcher - which is available only in a PoleVault System - a PMK 350 Projector Mounting Kit, System Integrator® speakers, and two to four transmitters.

The PoleVault System Configurator at www.extron.com/pv is an online, drag-and-drop configuration utility that allows users to design PoleVault systems using the Extron Web site. The dynamic, graphical user interface makes system customization easy. Only the available choices are shown as you build your system. Helpful wizards ensure that only valid systems are built and vital accessories are included. In each standard system, certain components can be changed. For example, users can specify an additional pair of speakers, add wall plates, add or remove optional mounting hardware, and select component colors. A wide range of options are available. The PoleVault System Configurator can also be used to print or save an equipment list and submit a request for quote to Extron Sales.



PoleVault System Configurator

System Components

POLEVAULT SWITCHER

The heart of the MediaLink PoleVault System is the PVS 204SA PoleVault Switcher. With four video inputs, autoswitching capabilities, and an integrated stereo audio amplifier, the PVS 204SA allows the PoleVault System to be configured to meet the needs of most single projector A/V environments.

The PVS 204SA accommodates up to two composite video signals and two high-resolution RGB computer video signals, all with stereo audio. Separate video outputs are provided for composite video and RGB video. The PVS 204SA switcher can be controlled via IR or RS-232.

The PVS 204SA also features an integrated 26 watt rms stereo audio amplifier capable of driving up to four Extron speakers and filling the room with full, rich sound. The integrated audio amplifier also features optional remote control of input selection and volume control, plus software-based tone control, loudness, and limiting for set-and-forget operation. An auxiliary line level input is provided to accept an external audio source, such as a wireless microphone.

Input Selection Buttons
Easy input selection with corresponding LED illumination

Software-based Tone and Dynamics
Treble, bass, loudness, and limiter settings can be controlled via RS-232 to tailor the audio to the needs of the acoustic environment

Configuration Port
Allows for configuration via the front panel

Voice Level Control
Sets the level of a wireless microphone mixed with the audio from the A/V sources

Autoswitching
Simplifies operation by automatically switching to active source

Integrated Amplifier
For stereo or dual mono operation providing 11 watts rms per channel into 4 ohms, 7 watts rms per channel into 8 ohms

Two RGB Inputs
Accepts up to two VGA-UXGA computer video and stereo audio signals from PVT Series RGB transmitters

Remote Volume Control
Compatible with Extron VCM - Volume Control Module series

Two Video Inputs
Accepts up to two composite video and stereo audio signals from PVT Series composite video transmitters

Video and RGB Outputs
For sending computer-video and composite video signals to a projector

Wireless Microphone Ready
This line-level port accepts a signal from a wireless microphone to amplify the teacher's voice

Control Port
Compatible with MediaLink Controller for input switching and volume control via RS-232 and hardwired IR

SWITCHER FEATURES

- Available exclusively as part of a PoleVault System
- Receives RGB computer video, composite video, and stereo audio signals from PVT Series twisted pair transmitters
- Integrated 26 watt rms audio amplifier for stereo or dual mono audio
- Receives audio/video signals and provides transmitter power over CAT 5-type UTP cable
- Controllable via MLC - MediaLink Controller or front panel buttons
- Auxiliary audio input accepts line level audio signals from a wireless microphone for mixing with any of the four switchable inputs
- Remote control capabilities for volume via RS-232 or 10k potentiometer and muting via contact closure
- Software-based tone and dynamics for audio to meet the needs of the acoustic environment
- Autoswitching mode for automatic signal routing
- LED power indicator
- External power supply included

System Components

POLEVAULT TRANSMITTER OPTIONS

Extron PoleVault Transmitters are designed to work exclusively with the PVS 204SA Four Input PoleVault Switcher as part of the PoleVault System. Each transmitter accepts either composite video or RGB computer video along with stereo audio and sends the signals to the switcher on economical twisted pair cable. All PVT Series transmitters can be used with any CAT 5-type twisted pair cable or Extron Enhanced Skew-Free™ A/V UTP cable. PoleVault transmitters are powered products and provide active balanced transmissions for both video and audio. Each one is powered by the PVS 204SA switcher via the twisted pair cable and features an LED power indicator for easy troubleshooting. A variety of mounting options are available.

INCLUDED TRANSMITTERS

PVT CV D

Composite Video and Stereo Audio Twisted Pair Transmitter - Decora Wallplate

- Transmits composite video and stereo audio signals to a PVS 204SA switcher over a single CAT 5 UTP cable
- Composite video and stereo audio input on female RCA connectors
- Mounts in an included Decora-style wallplate

PVT RGB D

RGB Computer Video and Stereo Audio Twisted Pair Transmitter - Decora Wallplate

- Transmits RGB computer video and stereo audio signals to a PVS 204SA switcher over two CAT 5 UTP cables
- RGBHV video input on a female 15-pin HD connector and audio input on a 3.5 mm stereo mini jack
- Mounts in an included Decora-style wallplate

OPTIONAL TRANSMITTERS

PVT CV AAP

Composite Video and Stereo Audio Twisted Pair Transmitter- AAP Module

- Transmits composite video and stereo audio signals to a PVS 204SA switcher over a single CAT 5 UTP cable
- Composite video and stereo audio input on female RCA connectors
- Mounts in products that accept a double-space AAP - Architectural Adapter Plate

PVT RGB AAP

RGB Video and Stereo Audio Twisted Pair Transmitter - AAP Module

- Transmits high resolution video and stereo audio signals to a PVS 204SA switcher over two CAT 5 UTP cables
- RGBHV video input on a female 15-pin HD connector and audio input on a 3.5 mm stereo mini jack
- Mounts in products that accept a double-space AAP - Architectural Adapter Plate

OPTIONAL TRANSMITTERS

PVT CV

Composite Video and Stereo Audio Twisted Pair Transmitter

- Transmits composite video and stereo audio signals to a PVS 204SA switcher over a single CAT 5 UTP cable
- Composite video and stereo audio input on female RCA connectors
- Rack-mountable, 1U, one-eighth rack width metal enclosure

PVT RGB

RGB Computer Video and Stereo Audio Twisted Pair Transmitter

- Transmits high resolution computer video and stereo audio signals to a PVS 204SA switcher over two CAT 5 UTP cables
- RGBHV video input on a female 15-pin HD connector and audio input on a 3.5 mm stereo mini jack
- Local monitor output
- Rack-mountable, 1U, quarter rack width metal enclosure

PVT RGB CV

RGB Video, Composite Video, and Stereo Audio Twisted Pair Transmitter

- Transmits RGBHV, composite video, and stereo audio signals to a PVS 204SA switcher over three CAT 5 UTP cables
- Two input model accepts composite video with audio on female RCA jacks and RGBHV on a female 15-pin HD connector with audio on a 3.5 mm stereo mini jack
- Rack-mountable, 1U, quarter rack width metal enclosure

PVT SW RGB

Two Input RGB and Stereo Audio Twisted Pair Transmitter With Integrated Switcher

- Increases the quantity of high resolution video inputs allowed in a PoleVault System
- Transmits RGB and stereo audio signals to a PVS 204SA switcher over two CAT 5 UTP cables
- Two RGBHV video inputs on female 15-pin HD connectors and two audio inputs on 3.5 mm stereo mini jacks

System Components

CONTROLLER OPTIONS

The included MLC 104 IP Plus MediaLink Controller lets you connect the A/V system to your existing network and use GlobalViewer®, Extron's free Web-based application for campus-wide remote asset management. For additional functionality, MLC controller upgrade options are available. Each provides several advantages over using only the wireless remote control provided with the video projector, including centralized remote control of projector power, switcher source selection, and amplifier volume control.

OPTIONAL CONTROLLER
Good

MLC 52 RS VC
Basic MLC - MediaLink Controller with IR, RS-232, and Volume Control

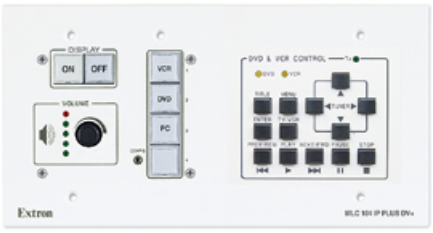
- RS-232 and IR ports for display and switcher control
- **No network connectivity**
- Inactivity timer provides automatic shutdown to help preserve projector lamp life
- Configurable backlit buttons
- Volume control

INCLUDED CONTROLLER
Better

MLC 104 IP Plus
MLC - MediaLink Controller with IP Link®

- Two bidirectional RS-232 ports for display and switcher control
- IPLink® **Network monitoring and control**
- Front panel security lockout
- Configurable tricolor backlit buttons
- Volume control with indicators
- Support for optional IRCM control modules

OPTIONAL CONTROLLER
Best



MLC 104 IP Plus DV+
MLC - MediaLink Controller with IP Link® and Integrated DVD and VCR IR Control

- Adds dual-function DVD and VCR IR control
- Two bidirectional RS-232 ports for display and switcher control
- IPLink® **Network monitoring and control**
- Front panel security lockout
- Configurable tricolor backlit buttons
- Volume control with indicators

AUDIO OPTIONS

Expand the system's audio performance by selecting an additional pair of SI 3CT LP Full Range Plenum-Rated Ceiling Speakers or, for non-plenum environments, select two or four SI 26X Two-Way Open Back Ceiling Speakers. For stereo program applications, move up to higher powered SI 26 or SI 28 surface mount speakers. An MLP 101 D Mic to Line Preamplifier can be added to the system to route a presenter's microphone to the PVS 204SA switcher.

INCLUDED SPEAKERS

SI 3CT LP
Full-Range Ceiling Speakers with 4" Low Profile Back Can and Transformer

- **Plenum-rated ceiling speakers** designed for typical classroom applications
- 4" (10.2 cm) deep low profile metal back can for plenum environments
- 3" (7.6 cm) full-range driver with a tuned port
- Locking arms for quick ceiling installation

OPTIONAL SPEAKERS

SI 26X
Two-Way Open Back Ceiling Speakers

- **Non-plenum ceiling speakers** for low-cost applications
- Open back, infinite baffle design
- 6.5" (16.5 cm) long-throw woofer
- 3/4" (1.9 cm) pivoting ferrofluid-cooled, titanium-coated dome tweeter

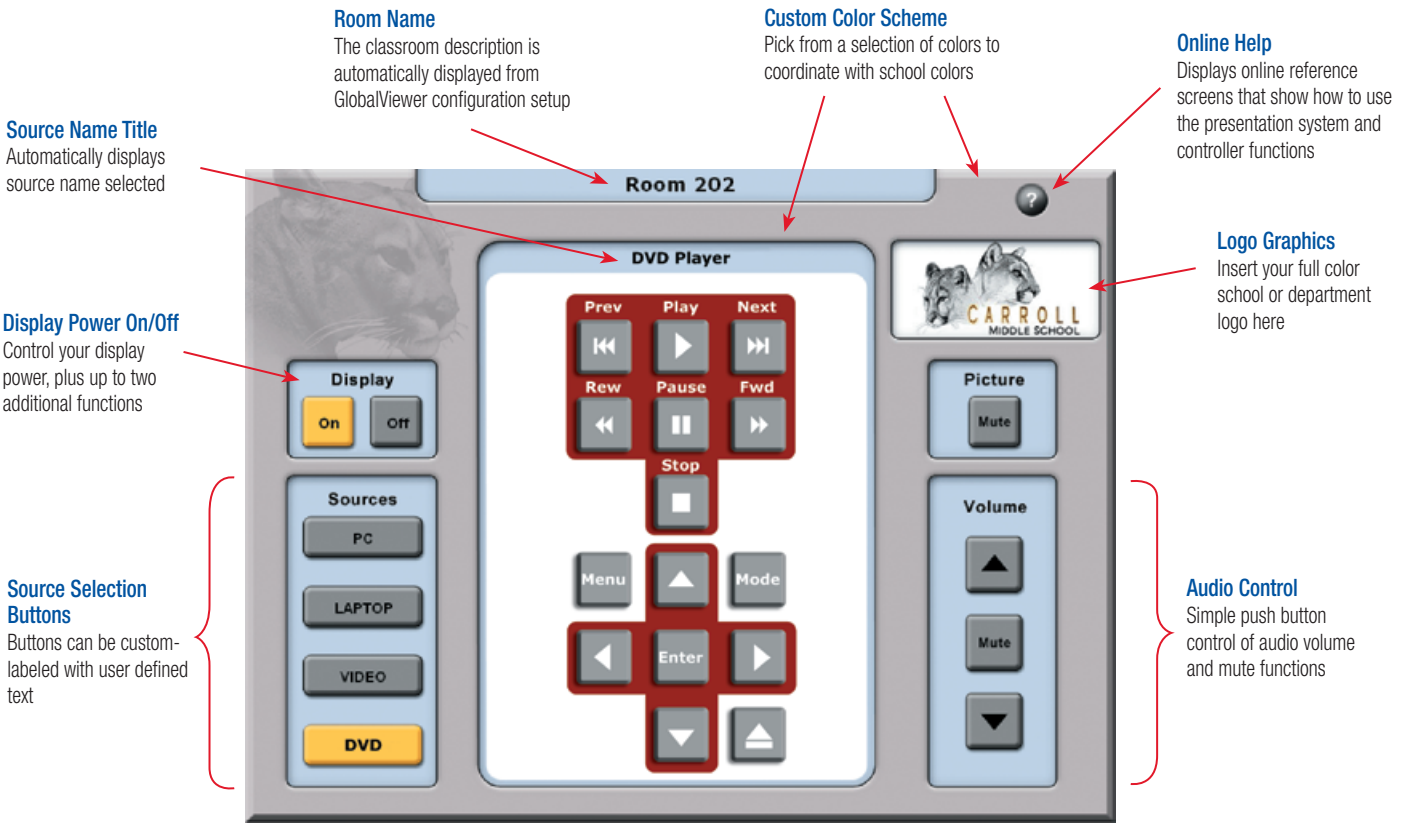
SI 26 & SI 28
Two-Way Surface Mount Speakers

- **Wall mounted speakers** for stereo audio applications
- 6.5" (16.5 cm), SI 26, or 8" (20.3 cm), SI 28, long-throw woofer with dual tuned bass reflex ports
- Exclusive conical horn design features 1" (2.5 cm) ferrofluid-cooled, aluminum dome tweeter

MLP 101 D
MLP - Mic to Line Preamplifier

- Microphone preamp allows wired microphone to be connected to the PoleVault switcher
- Precise mic input gain adjustment from +25 to +72 dB
- Mounts in an included Decora-style faceplate; available in white

Control Option – Graphical User Interface



Customized Graphical User Interface

Technology enhanced classrooms provide instructors with new tools to teach and interact within the presentation environment. Many instructors prefer the flexibility of not only controlling the environment via an in-room controller mounted on a wall or lectern, but also from a control page on a computer monitor or wireless device. Now, you can economically deliver a graphically rich control environment in each and every PoleVault-equipped room in the school, along with the powerful management capability of network enabled MediaLink controller.

Extron's graphical user interfaces, or GUIs, are functional, intuitive, and easy to use. The integrated IP Link Web server in the MLC 104 IP Plus controller makes adding a high quality customized user interface easy and enables control from any networked PC or laptop using either a mouse or touch-monitor in the room. Your AV/IT facility support team will still be able to provide remote interactive support for all users from within the free GlobalViewer® management environment.

Extron offers two ways to create a custom GUI for your installation. You can create your own using our Custom GUI Software Development Kit or let Extron software developers do the work for you with our economical GUI Customization Service.

Custom GUI Software Development Kit: Do It Yourself

Our Custom Web User Interface SDK - Software Development Kit is provided for free and can be downloaded from the Extron Web site. The kit includes Adobe Photoshop template files and code samples that you can use to create and deploy your own custom GUI. A detailed “getting started” guide is also included with instructions on modifying the template files and code, how basic communication is handled by the system, and loading and testing the base templates.

GUI Customization Service: Extron Does The Work For You

Ordering a custom GUI for your organization is as easy as contacting an Extron Customer Support Representative and describing what you need. For a small fee, Extron will take care of all the details.

Our software development team will create a mockup of your customized GUI. When you are completely satisfied with the design mockup, Extron software programmers will develop your custom GUI according to your exact specifications. The files will be fully tested using the same model of MLC 104 IP Plus controller used in your PoleVault system. When the testing is done, an Extron Application Engineer will send you your GUI files and work with you to install the GUI on your system.

System Components

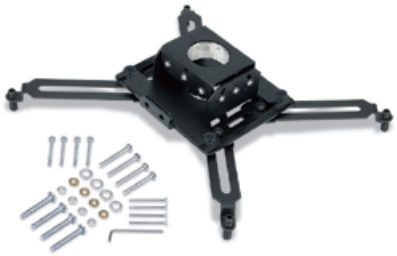
INCLUDED PROJECTOR MOUNTING HARDWARE

The Extron MediaLink PoleVault System is customizable for the projector mounting needs of each classroom. Ceiling mounts for PMP – Projector Mounting Poles include options for rooms with drop – or T-Bar-style – ceiling tiles, angled ceilings or flat ceilings. PMPs can be selected based upon the ceiling height of the room and are offered in black or white to match the aesthetics of the environment. The PCM 240 Universal Projector Bracket and PMK 350 Projector Mounting Kit are included in the PoleVault System. Simply choose the color - black or white - that best fits your installation.

PCM 240

Projector Drop Ceiling Mount

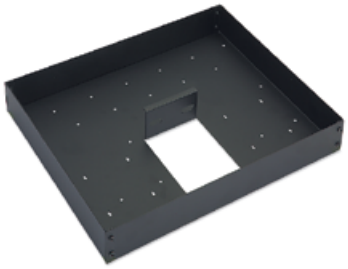
- Included in PoleVault System
- Projector drop ceiling mount for use with suspended ceilings
- Provides time- and cost-effective integration of projectors in small boardrooms and classrooms
- Includes knockout openings for junction boxes or for use as cable pass-throughs
- Includes 1.5" threaded pipe adapter for mounting projector mount poles
- Dimensions: 25.8" L x 8.00" W x 1.15" D (65.4 cm L x 20.3 cm W x 2.9 cm D)
- Available in white



UPB 25

Universal Projector Bracket

- Included in PoleVault System
- Universal projector mount compatible with nearly every projector up to 25 pounds
- Independent adjustments of horizontal tilt or roll, vertical angle or pitch, and rotation or yaw
- Precise positioning adjustments are maintained even if projector is removed for service
- Built-in security tabs to prevent theft
- Projector mounting hardware included for attaching projectors to the UPB 25
- Optional security hardware, part # 70-555-01
- Available in black or white



PMK 350

Low Profile Multi-Product Projector Mounting Kit

- Included in PoleVault System
- Securely mounts and conceals multiple products in varied configurations above the display device
- Accommodates the MLS 204SA TP, power supply, and all Extron quarter rack products such as VersaTools® and IP Link models
- Low profile requires 2" (5.0 cm) of height between projector and ceiling
- Dimensions: 2.0" H x 12.3" W x 10.87" D (5 cm H x 31.2 cm W x 27.6 cm D)
- Available in black or white

PMP Series

Projector Mount Poles

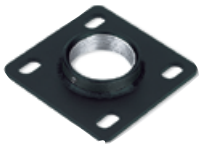
- Attaches ceiling mount to the UPB 25 Universal Projector Bracket
- The PMP 6, 6" (15 cm), is included in PoleVault System; the PMP 10, 10" (25 cm), or PMP 12, 12" (30 cm), may be substituted
- Used with Extron UPB 25, PCM 240, and other accessories to create individualized installations
- 1.6" W x 1.75" H (4 cm W x 4.4 cm H) cutout provides convenient cable access
- Available in black or white

OPTIONAL HARDWARE

ACMP 100

Angled Ceiling Mounting Plate

- Alternative to the PCM 240
- Pivoting angled ceiling mounting plate
- Enables projector to hang level from angled ceilings
- Compatible with Extron PMP Series Projector Mount Poles
- Available in black

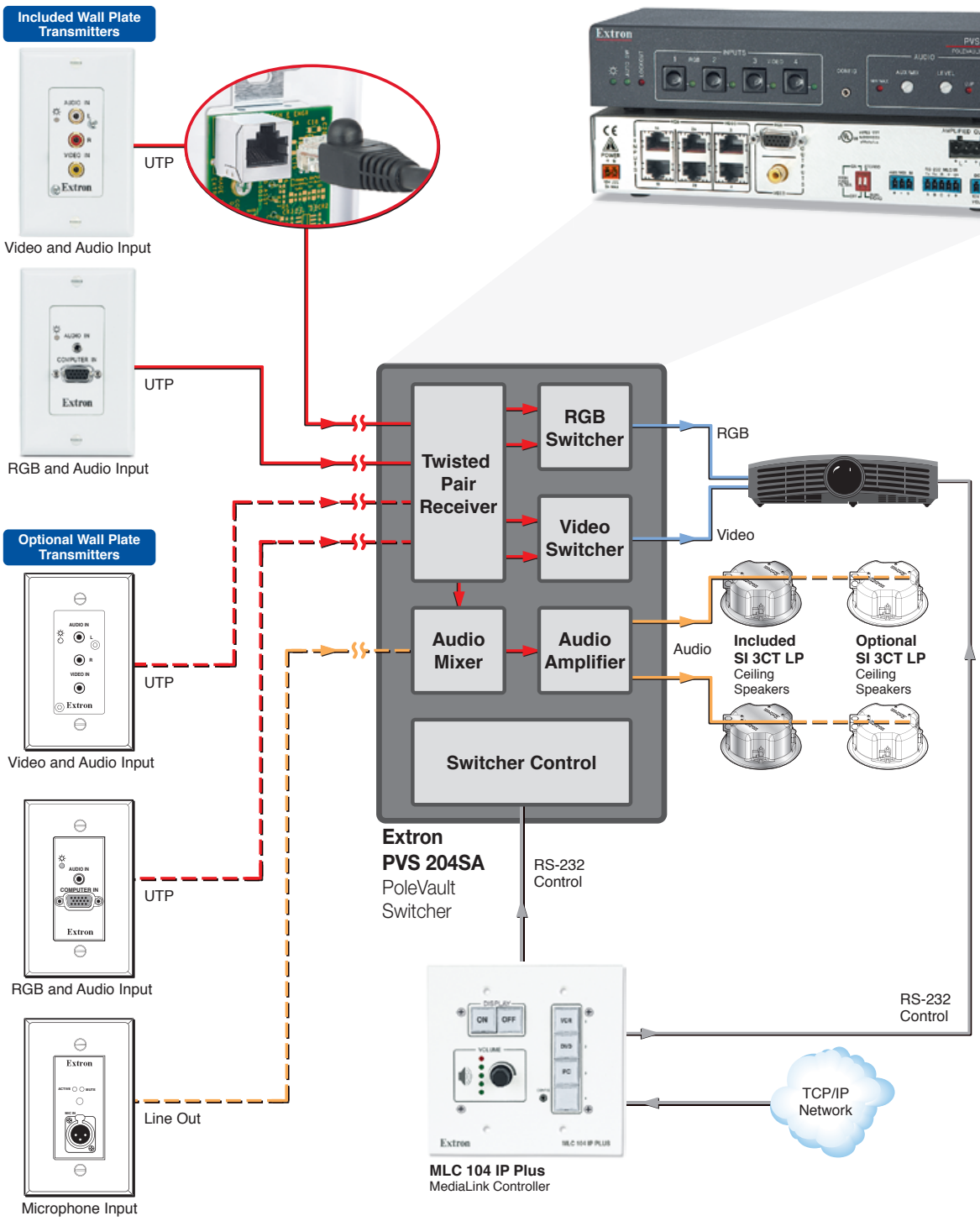


FCMP 44

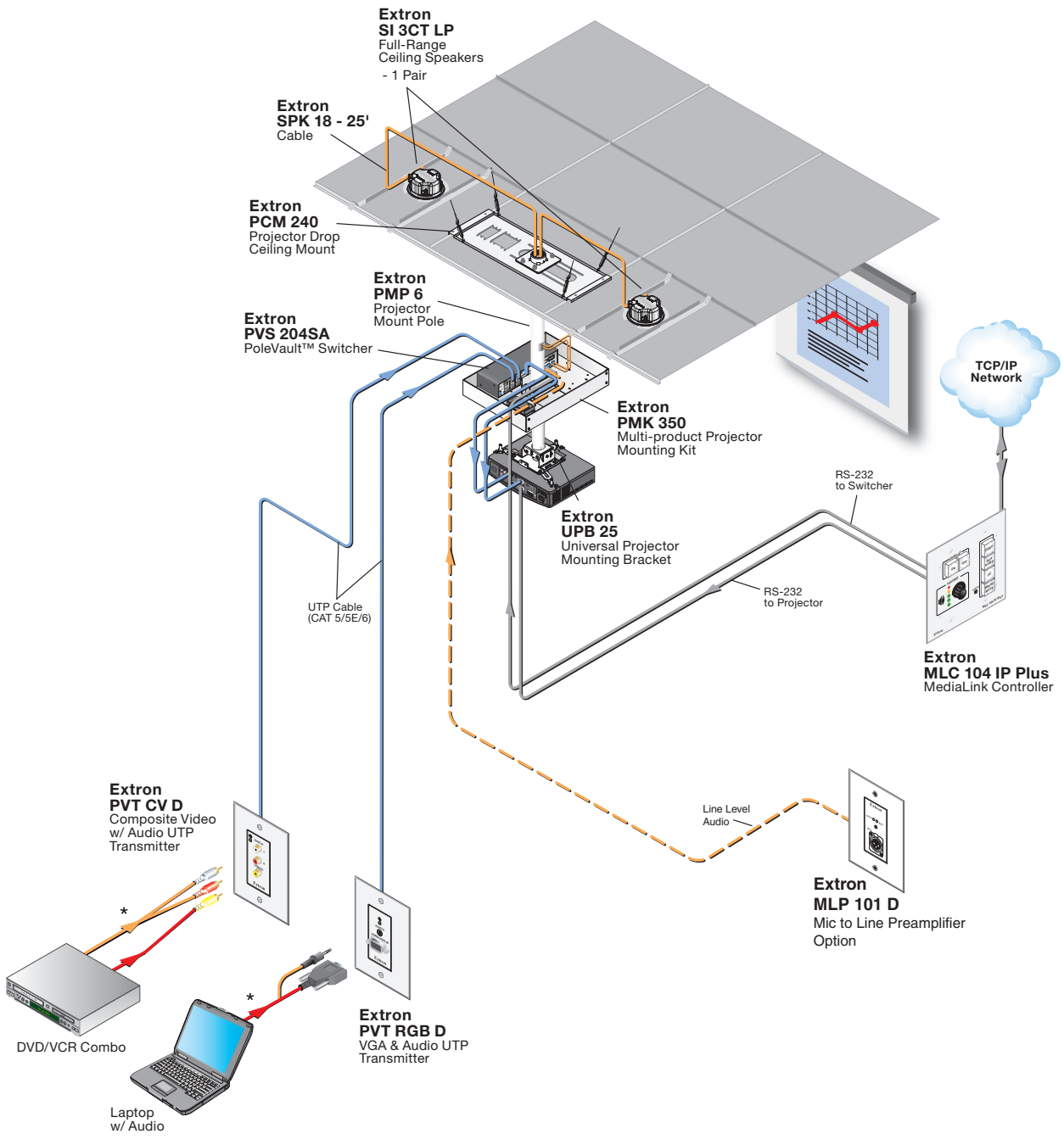
Flat Ceiling Mounting Plate

- Alternative to the PCM 240
- 4-inch square, low profile mounting plate
- Provides a ceiling mounting point for any Extron PMP Projector Mount Pole
- Enables close ceiling placement of projector
- Available in black

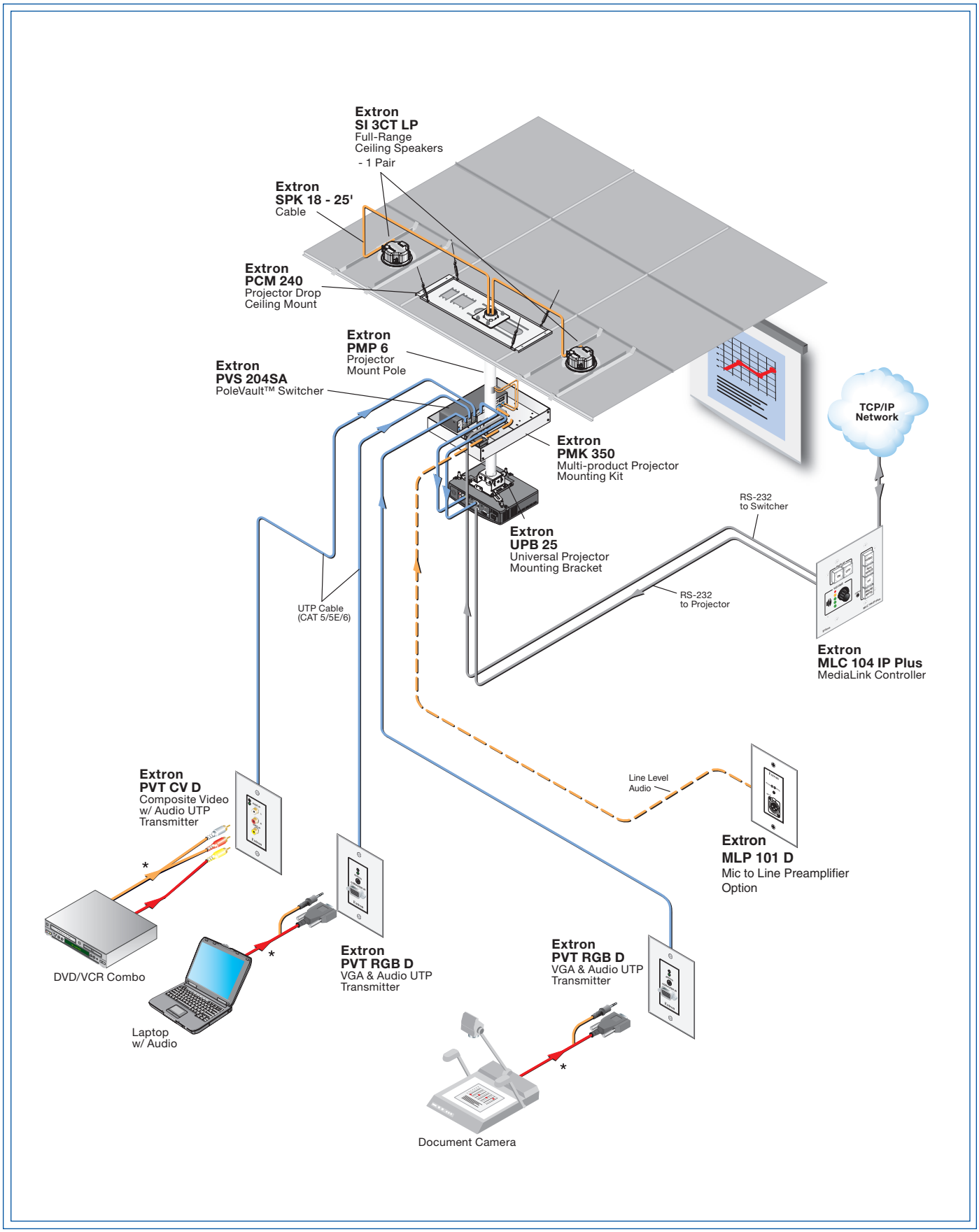
Block Diagram



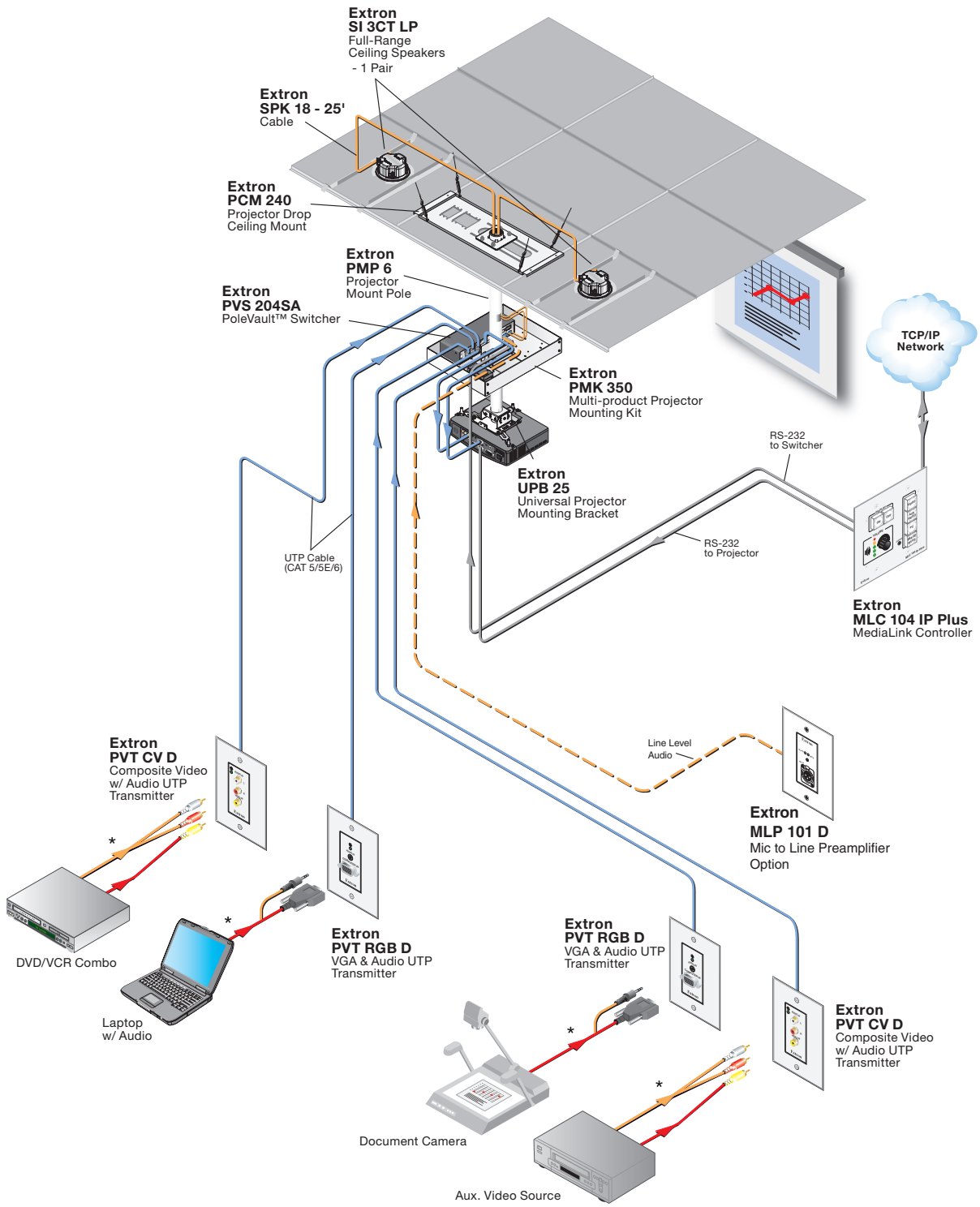
PVS 200 - Two Input PoleVault System



PVS 300 - Three Input PoleVault System



PVS 400 - Four Input PoleVault System



Extron Electronics, USA
1230 South Lewis Street
Anaheim, CA 92805
800.633.9876 | 714.491.1500
FAX 714.491.1517

Extron Electronics, Europe
Beeldschermweg 6C
3821 AH Amersfoort, The Netherlands
+800.3987.6673 | +31.33.453.4040
FAX +31.33.453.4050

Extron Electronics, Asia
135 Joo Seng Road #04-01
PM Industrial Building, Singapore 368363
+800.7339.8766 | +65.6383.4400
FAX +65.6383.4664

Extron Electronics, Japan
Kyodo Building, 16 Ichibancho
Chiyoda-ku, Tokyo 102-0082
Japan
+81.3.3511.7655 | FAX +81.3.3511.7656

© 2007 Extron Electronics. All rights reserved. All trademarks mentioned are the property of their respective owners.

07-01
68-1268-01
Rev. B